## **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

- 1-34. (Canceled)
- 35. (Currently Amended) An apparatus for dispensing materials to vegetation, the apparatus comprising:
  - a conduit having a channel;
- an outlet coupled to the channel for conveying a substance from the channel to the vegetation;
- a plurality of sensors fixedly coupled to the conduit, wherein signals from the sensors are used to control conveyance of the substance to the plants; and
- a <u>sensor</u> cable <u>secured</u> <u>running</u> along a length of the conduit and electrically coupled to the sensors for transferring the signals to a destination.
- 36. (Original) The apparatus of claim 35, wherein one or more sensors is associated with a particular outlet, the apparatus further comprising
- a flow control coupled to the particular outlet for regulating an amount of the substance conveyed to the vegetation; and
- a control system coupled to the flow control and to the one or more sensors associated with the particular outlet, for sending a signal to regulate an amount of the substance conveyed to the vegetation in response to a signal from the one or more sensors.
- 37. (Original) The apparatus of claim 36, wherein the control system includes a microprocessor.
- 38. (Original) The apparatus of claim 35, wherein the sensor includes an optical sensor.
- 39. (Original) The apparatus of claim 38, wherein the sensor includes a photodetector.

- 40. (Original) The apparatus of claim 35, wherein the sensor includes a humidity sensor.
- 41. (Original) The apparatus of claim 35, wherein the sensor includes a leaf wetness sensor.
- 42. (Original) The apparatus of claim 35, wherein the sensor includes a temperature sensor.
- 43. (Original) The apparatus of claim 35, wherein the sensor includes an insect sensor.
- 44. (Original) The apparatus of claim 43, wherein the sensor includes a protein sensor.
  - 45. (Original) The apparatus of claim 43, wherein the sensor includes a DNA sensor.
  - 46. (Original) The apparatus of claim 43, wherein the sensor includes a sticky trap.
- 47. (Original) The apparatus of claim 43, wherein the sensor includes a pheromone detector.
- 48. (Original) The apparatus of claim 35, wherein the sensor includes a temperature sensor.
- 49. (Original) The apparatus of claim 35, wherein the sensor includes an infrared sensor.
- 50. (Original) The apparatus of claim 35, wherein the sensor includes a sugar accumulation sensor.
  - 51. (Original) The apparatus of claim 35, wherein the sensor includes a pH probe.

- 52. (Original) The apparatus of claim 35, wherein the sensor includes a soluble solids sensor.
- 53. (Original) The apparatus of claim 35, wherein the sensor includes a sugar accumulation sensor.
  - 54 76. (Canceled)
- 77. (Previously Presented) The method of claim 79 further comprising: placing the conduit in proximity to regularly spaced plants so that a regular spacing of the sensors is in substantial alignment with the plants' regular spacing.
- 78. (Previously Presented) The method of claim 77, wherein the plants include grape vines.
- 79. (Previously Presented) The method of claim 35, wherein a group of the plurality of sensors is spaced at regular intervals.
- 80. (Previously Presented) The method of claim 35, wherein a group includes one or more plants.
- 81. (Original) The method of claim 35, wherein the destination is a central control center for controlling dispensing of the material in response to signals from two or more sensors.
- 82. (Original) An apparatus for dispensing materials to vegetation, the apparatus comprising:
  - a conduit having a channel;
- an outlet coupled to the channel for conveying a substance from the channel to the vegetation;
- a plurality of sensors fixedly coupled to the conduit, wherein each sensor includes a wireless transmitter for transmitting a signal to a central controller for controlling dispensing of a material via the outlet in response to the transmitted signals.